

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 June 2008 (26.06.2008)

PCT

(10) International Publication Number
WO 2008/074100 A1

(51) International Patent Classification:
C12Q 1/66 (2006.01) *G01N 33/53* (2006.01)

(21) International Application Number:
PCT/AU2007/002003

(22) International Filing Date:
21 December 2007 (21.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/876,370 21 December 2006 (21.12.2006) US

(71) Applicant (for all designated States except US): **GEN-ESTREAM PTY LTD** [AU/AU]; 96 Chipping Road, City Beach, Western Australia 6015 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEU, Marco Peter** [CH/AU]; 12/2 Goderich Street, East Perth, Western Australia 6004 (AU). **DALY, John Michael** [AU/AU]; 96 Chipping Road, City Beach, Western Australia 6015 (AU).

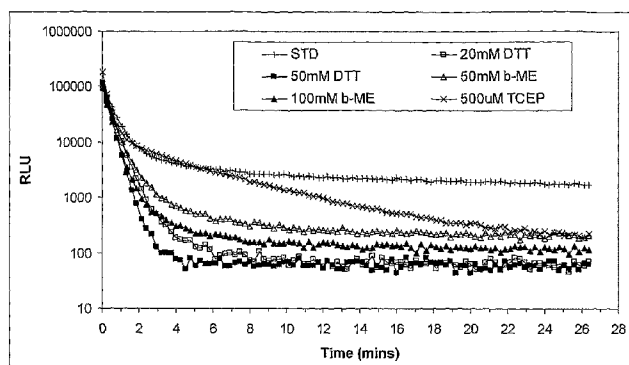
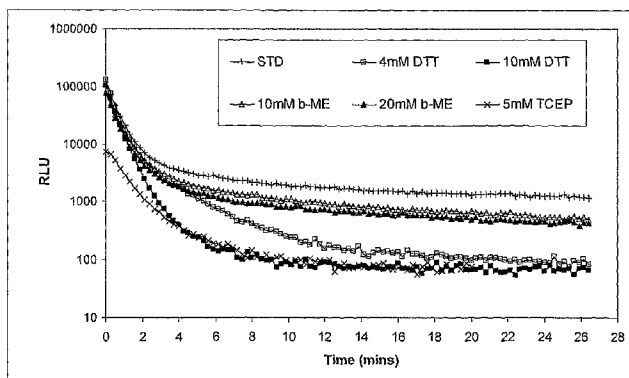
(74) Agents: **RECCHIA, Gavin, Dean** et al.; Davies Collison Cave, Level 14, 255 Elizabeth Street, Sydney, New South Wales 2000 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,

[Continued on next page]

(54) Title: BIOLUMINESCENT ASSAYS UTILISING SECRETED LUCIFERASES



(57) Abstract: Disclosed herein are methods for determining the amount or activity of one or more luciferases and methods for measuring the luminescent signal generated by one or more luciferases in a sample, the methods comprising incubating the sample with a reactive substrate(s) of the luciferase(s) to be analysed and a reducing agent to inactivate a first luciferase, wherein the first luciferase, in its native form, is a secreted luciferase.



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*